



Erratum

Erratum to “On rectifiable spaces and paratopological groups” [Topology Appl. 158 (4) (2011) 597–610]

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Several inaccuracies occurred in [1]. The following corrections should be made:

- (1) In Theorem 4.4, σ -point-discrete k -network should be σ -point-discrete closed k -network.
- (2) Lemma 6.16 should be corrected as follows, and the proof is similar to the original proof.

Lemma 0.1. *Let G be a k -gentle paratopological group. Then G is Lindelöf if and only if there exists a compactification bG such that, for any compact subset $F \subset Y = bG \setminus G$, there is a compact subset $L \subset Y$ which contains F and is a G_δ -subset in Y .*

Let \mathcal{A} be a collection of subsets of a space X . The collection \mathcal{A} is a p -metabase for X if for distinct points $x, y \in X$, there exists an $\mathcal{F} \in \mathcal{A}^{<\omega}$ such that $x \in (\bigcup \mathcal{F})^\circ \subset \bigcup \mathcal{F} \subset X - \{y\}$.

- (3) The proof of Lemma 6.19 has a gap. However, Lemma 6.19 is still valid replacing k -space with a point-countable k -network with point-countable p -metabase. Therefore, we correct Theorem 6.21 as follows, although we do not know whether the original statements are true or not. Moreover, Questions 6.14 and 6.15 are still open.

Theorem 0.2. *Suppose that G is a non-locally compact topological group, and that $Y = bG \setminus G$ has a locally point-countable p -metabase. Then G and bG are separable and metrizable spaces.*

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References

- [1] F. Lin, R. Shen, On rectifiable spaces and paratopological groups, *Topology Appl.* 158 (2011) 597–610.